

07.2—194 Removal and installation of carburetor

Identification: Information plate in national language on cross member in front of radiator or on cylinder head cover. Adjust engines according to data of respective exhaust gas information plate.

Testing and adjusting values

Idle speed adjustment

National version	Idle speed 1/min	Idle speed emission value % CO
up to 1976	800–900	max. 1.5
(J) 1976		max. 1.0 without air injection
(S) 1976		
(USA) 1973	750–900	up to 1.5
(USA) 1974 Federal		
(USA) 1974 California	700–900	6–8 without air injection
(USA) 1975/76	800–900	max. 1.0 without air injection

Vacuum governor¹⁾

National version	Engine speed Vacuum hose pulled off 1/min		Engine speed Driving position engaged 1/min
	without TN choke	with TN choke	
(J) 1976	—	1700–1900	600–700
(S) 1976	—		
(USA) 1973/74	1200–1400		
(USA) 1975/76	—		

¹⁾ When engaging all auxiliary units, the engine should still run smoothly.

Tightening torques		Nm	(kpm)
Carburetor fastening nuts	with new insulating flange	10	(1.0)
	with insulating flange used up to now	8	(0.8)

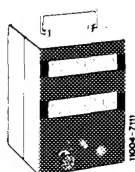
Special tools

Oil telethermometer



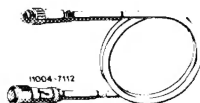
116 589 27 21 00

Digital tester



001 589 54 21 00

Connecting cable 6 m long



000 589 04 90 00

Intermediate plug (adaptor)



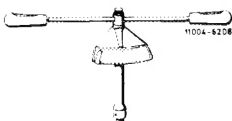
000 589 72 63 00

Trigger



000 589 71 63 00

Torque wrench 4–16 Nm (40–160 kpcm)



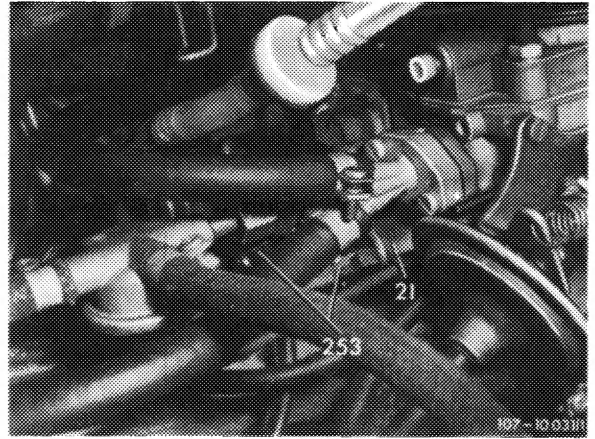
000 589 67 21 00

Conventional tools

Revolution counter, CO measuring instrument

Removal

- 1 Remove air filter.
- 2 Evacuate excess pressure in cooling system by loosening radiator cap for a short moment, then tighten cap again.
- 3 Unscrew fuel return valve. Pull off electric cable on choke cover, plug on idle speed shutoff valves, vacuum lines and coolant hoses. Disconnect regulating rod on carburetor.
- 4 Unscrew carburetor fastening nuts and remove carburetor.



Installation

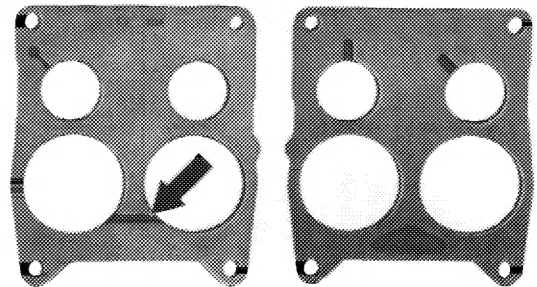
- 5 Install carburetor in vice versa sequence. Proceed as follows:

- Check insulating flange for damage and replace, if required.
- Pay attention to installation position and various insulating flange versions.

USA 1973/74

USA California 1974

Arrow = groove for drawing off fuel evaporation vapors, should point toward carburetor.



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J 1976

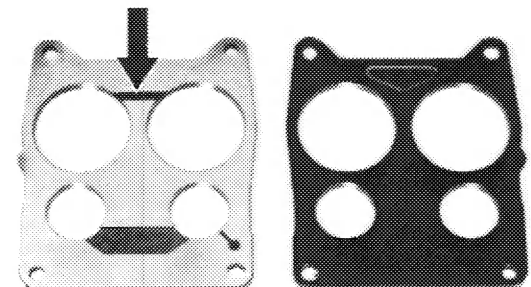
S 1976

USA 1975/76

Arrow = groove for drawing off fuel and crankcase evaporation vapors, should point toward carburetor.

Attention!

This insulating flange should no longer be installed for model years 1973/74.

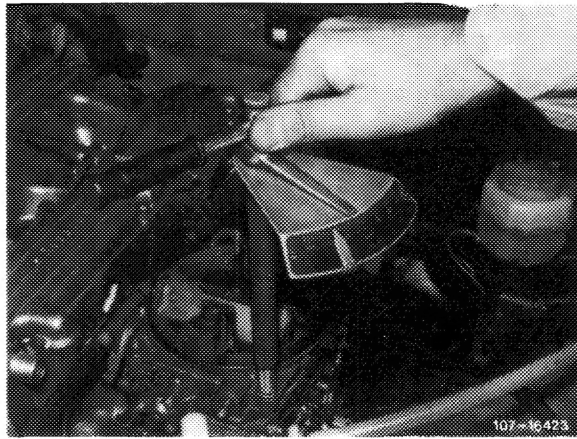


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- Tighten carburetor fastening nuts uniformly and crosswise to specified torque.

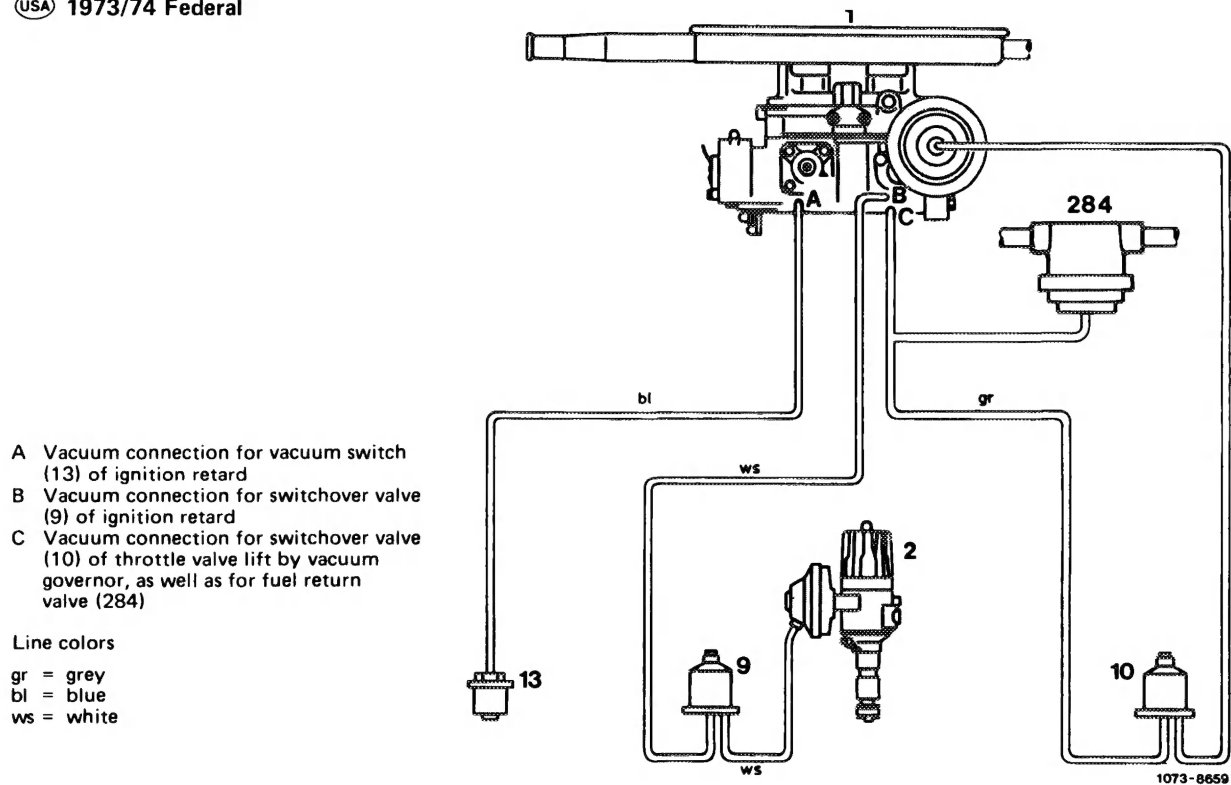
Attention!

To prevent distortion of carburetor, tighten with a torque wrench only and up to specified torque.



- Attach vacuum lines on carburetor according to diagram.

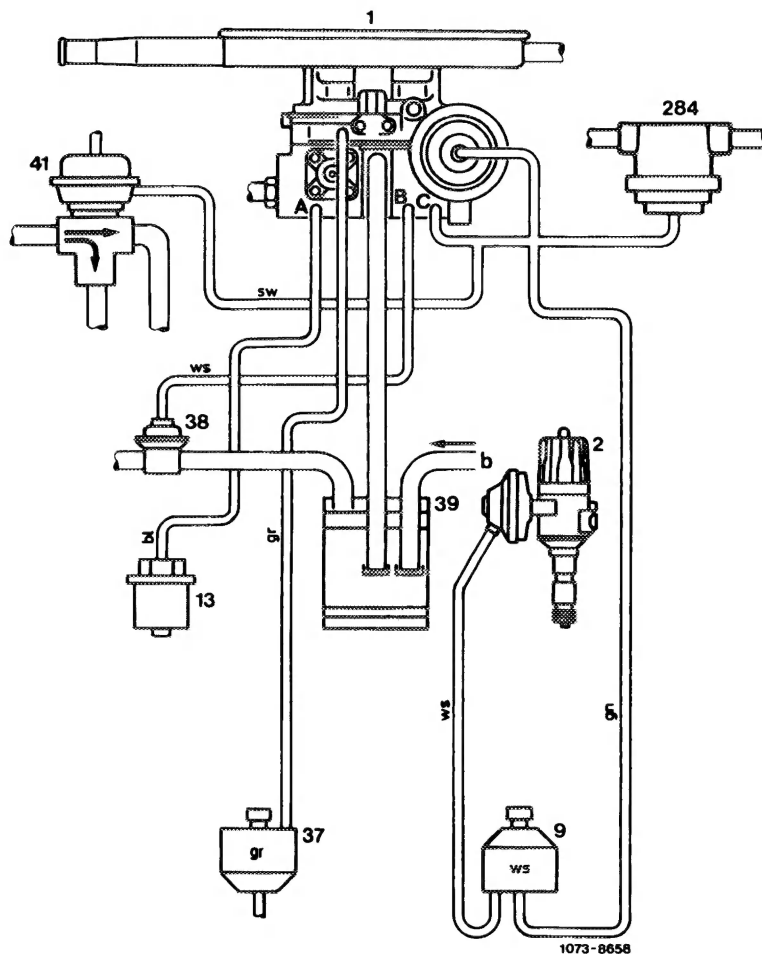
USA 1973/74 Federal



- A Vacuum connection for vacuum switch (13) of ignition adjustment
 B Vacuum connection for draw-off valve (38) of fuel evaporation control system
 C Vacuum connection for switchover valve (9) of ignition adjustment, decel diverter valve of air injection, vacuum governor and fuel return valve (284)

Line colors

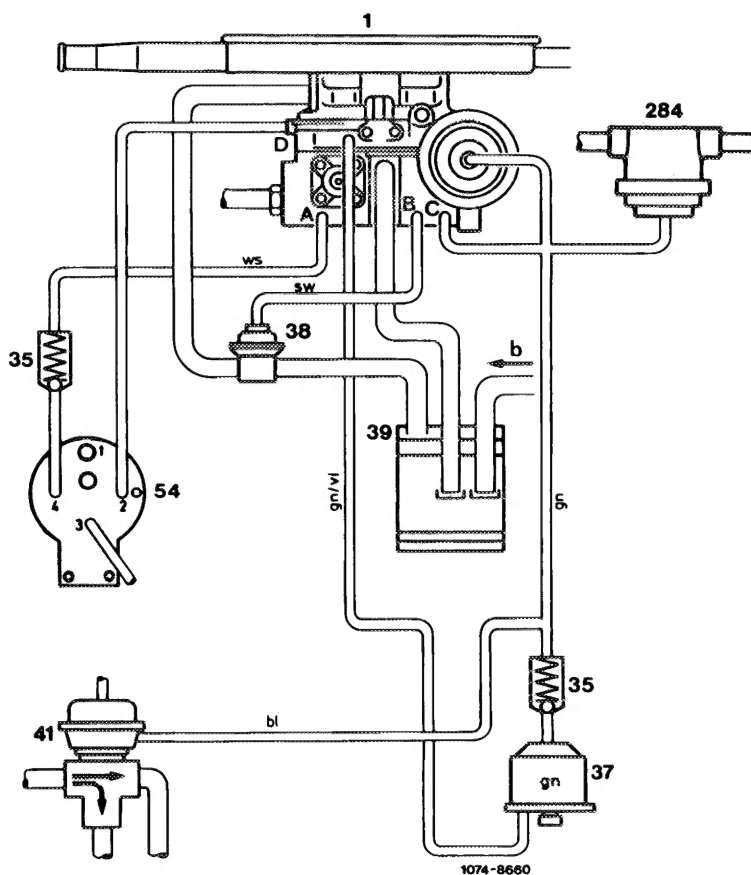
bl = blue
 br = brown
 gr = grey
 gn = green
 rt = red
 ws = white



- A Vacuum connection check valve (35) of vacuum booster for EGR
 B Vacuum connection for draw-off valve (38) of fuel evaporation control system
 C Vacuum connection for check valve (35) of float chamber vent system, vacuum governor and fuel return valve (284)

Line colors

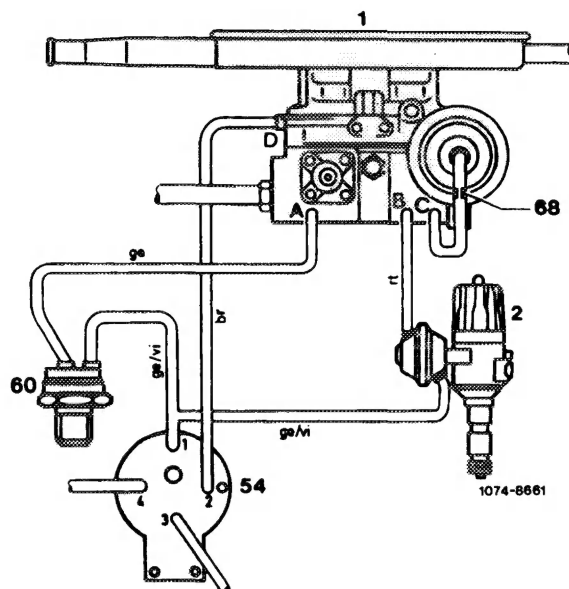
bl = blue
 br = brown
 gn = green
 sw = black
 vi = purple
 ws = white



- A Vacuum connection 40 °C thermostatic valve (60) of EGR
- B Vacuum connection for ignition advance
- C Vacuum connection for vacuum governor
- D Vacuum connection for vacuum booster (54) of EGR

Line colors

br = brown
ge = yellow
rt = red
vi = purple



6 Adjust idle speed (07.2–100).